

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Previously presented): A hermetically sealed compressor assembly comprising:

a hermetically sealed housing;

an electric motor disposed in said housing;

a compression mechanism disposed in said housing and operatively coupled to said motor;

a terminal assembly comprising a cup-shaped terminal body extending through and sealingly attached to said housing, said terminal assembly having electrically conductive pins extending through and insulated from said terminal body;

a cluster block assembly disposed within said housing and connected to said terminal assembly, said pins electrically connected to said motor through said cluster block assembly, said cluster block assembly including a cluster block which is fitted to said terminal body, said cluster block defining a free volume therein;

a cavity being defined between the interior of the cup-shaped terminal body and an interfacing surface of said cluster block; and

a substantially solid dielectric material substantially filling at least one of said cavity and substantially all said free volume within said cluster block assembly,

wherein said cluster block assembly includes a means of ingress for said dielectric material to enter at least one of said cavity and said free volume when said cluster block is fitted to said terminal body.

Claim 2 (Original): The hermetic compressor assembly of Claim 1, wherein said dielectric material substantially conforms to the surfaces over which it extends.

Claim 3 (Cancelled):

Claim 4 (Previously presented): The hermetic compressor assembly of Claim 1, wherein said cluster block includes a cover and a base fitted to said cover, and wherein said means of

ingress comprises a first aperture extending through said cover and in communication with said free volume.

Claim 5 (Previously presented): The hermetic compressor assembly of Claim 4, wherein said means of ingress further comprises a second aperture extending through said base, said second aperture communicating between said free volume and said cavity.

Claim 6 (Original): The hermetic compressor assembly of Claim 1, wherein said dielectric material is one of an epoxy and a dielectric polymer.

Claim 7 (Original): The hermetic compressor of Claim 6, wherein said dielectric material is a cured gel and is substantially solid.

Claim 8 (Previously presented): The hermetic compressor assembly of Claim 1, further comprising jacketed wires through which said pins and said motor are electrically connected, and wherein said cluster block further comprises passages through which said jacketed wires extend, said passages defining a portion of said free volume and also containing a portion of said dielectric material in contact with the jackets of said wires.

Claim 9 (Previously presented): A hermetically sealed compressor assembly comprising:
a hermetically sealed housing;
an electric motor disposed in said housing;
a compression mechanism disposed in said housing and operatively coupled to said motor;

a terminal assembly comprising a cup-shaped terminal body extending through and sealingly attached to said housing, said terminal assembly having electrically conductive pins extending through and insulated from said terminal body;

a cluster block assembly disposed within said housing and connected to said terminal assembly, said pins electrically connected to said motor through said cluster block assembly, said cluster block assembly including a cluster block which is fitted to said terminal body to define a cavity between said terminal body and said cluster block, said cluster block defining

an aperture extending through said cluster block and externally communicating with said cavity when said cluster block is fitted to said terminal body; and

a liquid dielectric material which has been deposited within at least one of said cluster block and a said cavity through said aperture and which has been allowed to cure to a substantially solid state, whereby the electrical connection between said cluster block assembly and said terminal assembly is insulated.

Claim 10 (Original): The hermetic compressor assembly of Claim 9, wherein said dielectric material substantially conforms to the surfaces over which it extends.

Claim 11 (Original): The hermetic compressor assembly of Claim 9, wherein said dielectric material is injected subsequent to the connection of said cluster block assembly to said terminal assembly.

Claim 12 (Original): The hermetic compressor assembly of Claim 9, wherein said dielectric material is placed prior to the connection of said connector assembly to said terminal assembly.

Claim 13 (Original): The hermetic compressor of Claim 9, wherein said dielectric material is cured after being placed, whereby said dielectric material becomes substantially solid.

Claim 14 (Original): The hermetic compressor assembly of Claim 9, wherein said dielectric material is one of an epoxy and a dielectric polymer.

Claim 15 (Original): The hermetic compressor assembly of Claim 9, further comprising jacketed wires which are electrically connected to said pins and said motor, and wherein said cluster block further comprises passages through which said wires extend, said passages containing a portion of said dielectric material which is in contact with the jackets of said wires.

Claims 16-20 (Cancelled).

Claim 21 (Currently Amended): A hermetically sealed compressor assembly comprising:

 a hermetically sealed housing;

 an electric motor disposed in said housing;

 a compression mechanism disposed in said housing and operatively coupled to said motor;

 a terminal assembly comprising a cup-shaped terminal body extending through and sealingly attached to said housing, said terminal assembly having a plurality of conductor pins extending through and insulated from said terminal body;

 a cluster block assembly disposed within said housing and in communication with said terminal assembly, said cluster block assembly including a cluster block which is fitted to said terminal body, said cluster block having a free volume therein;

 a cavity defined between the cup-shaped terminal body and said cluster block;

 said plurality of conductor pins electrically connected to said motor through said cluster block assembly; and

 a substantially solid dielectric material substantially filling said cavity and said cluster block free volume; and

wherein said cluster block provides a means of ingress for said dielectric material to enter said free volume of said cluster block and said cavity after said cluster block assembly is fitted to said terminal assembly.

Claim 22 (Original): The hermetic compressor assembly of Claim 21, wherein said dielectric material substantially conforms to the surfaces over which it extends.

Claim 23 (Original): The hermetic compressor assembly of Claim 21, wherein said cavity is closed and has no means of ingress thereinto once said cluster block assembly is fitted to said terminal assembly.

Claims 24 and 25 (Cancelled).

Claim 26 (Original): The hermetic compressor assembly of Claim 21, wherein said dielectric material is one of an epoxy and a dielectric polymer.

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Claim 27 (Original): The hermetic compressor of Claim 21, wherein said dielectric material is a cured gel and is substantially solid.